Appl. No. 10/646,239

Attorney Docket No.: 2002B117/2 Amdt. dated November 17, 2005

Reply to Office Action of August 17, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in this application.

Listing of Claims:

Claims 1-55 (Canceled).

56. (Currently Amended) A multilayer stretch film comprising:

a first surface layer,

a second surface layer, and

a core layer disposed between the first and second surface layers,

wherein the core layer comprises a polyethylene copolymer having a Compositional Distribution Breadth Index (CDBI) of at least 70%, a melt index I_{2.16} of from 0.1 to 15 g/10 min., a density of from 0.910 to 0.940 g/cm³, a melt index ratio I_{21.6}/I_{2.16} of from 30 to 80, and an Mw/Mn ratio of from 2.5 to 5.5, and

wherein the film having has a natural draw ratio of at least 250%, a tensile stress at the natural draw ratio of at least 22 MPa, and a tensile stress at second yield of at least 12 MPa, as measured according to ASTM D-882/07.

- 57. (Original) An article wrapped with the film of Claim 56.
- (New) The film of claim 56, wherein the film has a dart impact strength D, a modulus M, 58. where M is the arithmetic mean of the machine direction and transverse direction 1% secant moduli, and a relation between D in g/µm and M in MPa such that:

$$D \ge 0.0315 \left[100 + e^{\left(11.71 - 0.03887M + 4.592x10^{-5} M^2\right)} \right].$$

- 59. (New) The film of claim 56, wherein the natural draw ratio is at least 275%.
- (New) The film of claim 56, wherein the natural draw ratio is at least 300%. 60.

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- 61. (New) The film of claim 56, wherein the tensile stress at the natural draw ratio is at least 24 MPa.
- 62. (New) The film of claim 56, wherein the tensile stress at the natural draw ratio is at least 26 MPa.
- 63. (New) The film of claim 56, wherein the tensile stress at second yield is at least 14 MPa.
- 64. (New) The film of claim 56, wherein the film has a tensile stress at first yield of at least 9 MPa.
- 65. (New) The film of claim 56, wherein the CDBI is at least 75%.
- 66. (New) The film of claim 56, wherein the CDE is at least 85%.
- 67. (New) The film of claim 56, wherein the melt index is from 0.3 to 10 g/10 min.
- 68. (New) The film of claim 56, wherein the density is from 0.916 to 0.940 g/cm³.
- 69. (New) The film of claim 56, wherein the density is from 0.918 to 0.935 g/cm³.
- 70. (New) The film of claim 56, wherein the melt index ratio is from 35 to 60.
- 71. (New) The film of claim 56, wherein the Mw. Mn ratio is from 2.8 to 4.5.
- 72. (New) The film of claim 56, wherein the Mw/Mn ratio is from 3.0 to 4.0.
- 73. (New) An article wrapped with the film of Claim 56.
- 74. (New) A multilayer stretch film comprising: at least one first layer, and

at least one second layer, wherein any one or more layers comprises a polyethylene copolymer with a Compositional Distribution Breadth Index (CDB1) of at least 70%, a melt index I_{2.16} of from 0.1 to 15 g/10 min., a density of from 0.910 to 0.940 g/cm³, a melt index ratio I_{21.6}/I_{2.16} of from 30 to 80, and an Mw/Mn ratio of from 2.5 to 5.5, wherein: BEST AVAILABLE COPY

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the film has a natural draw ratio of at least 250%, a tensile stress at the natural draw ratio of at least 22 MPa, and a tensile stress at second yield of at least 12 MPa, as measured according to ASTM D-882/97; and

wherein a yield plateau of the film has a linear portion with a slope of at least 0.020 MPa per % elongation.

75. (New) The film of claim 74, wherein the film has a dart impact strength D, a modulus M, where M is the arithmetic mean of the machine direction and transverse direction 1% secant moduli, and a relation between D in g/µm and M in MPa such that:

$$D \ge 0.0315 \left[100 + e^{\left(11.71 - 0.03887M + 4.592 \times 10^{-5} M^2\right)} \right]$$

- 76. (New) The film of claim 74, wherein the tensile stress at the natural draw ratio is at least 26 MPa, and the natural draw ratio is at least 300%.
- 77. (New) The film of claim 74, wherein the film has a tensile stress at first yield of at least 9 MPa, and a second yield of at least 14 MPa, both yields measured according to ASTM D-882/97
- 78. (New) The film of claim 74, wherein the CDBI is at least 85%; the melt index ratio is from 35 to 60; and the Mw/Mn ratio is from 3.0 to 4.0.
- 79. (New) The film of claim 74, wherein the melt index is from 0.3 to 10 g/10 min, and the density is from 0.918 to 0.935 g/cm³.
- 80. (New) An article wrapped with the film of Claim 74.
- 81. (New) A method of wrapping an article, comprising: providing an article; providing the stretch film of claim 56; and wrapping the article with the stretch film.

150 Brien LAWN Processor from PRINCE Processes in the 200 EV 200 23 (17-25) BN20 28 (17-25) BN

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- (New) The method of claim 81, wherein the stretch film is provided in a pre-stretched 82. condition.
- 83. (New) The method of claim 81, further comprising applying a stretching force to the film before or during the step of wrapping the article with the stretch film.